```
                    STN  Columbus

FILE 'HOME' ENTERED AT 23:31:28 ON 03 SEP 2004

=> index biosci
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               0.21       0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, AQUALINE, ANABSTR, ANTE,
      AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
      BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
      CROPU, DISSABS, DDFB, DDFU, DGENE, ...' ENTERED AT 23:31:44 ON 03 SEP
2004

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s soluble (w) silk (w) protein
          2   FILE BIOTECHABS
          2   FILE BIOTECHDS
          3   FILE CAPLUS
          2   FILE CEABA-VTB
          2   FILE CIN
          1   FILE DISSABS
          6   FILE DGENE
  36 FILES SEARCHED...
          2   FILE GENBANK
          2   FILE IFIPAT
          2   FILE JICST-EPLUS
          9   FILE USPATFULL
          2   FILE WPIDS
          2   FILE WPINDEX

  13 FILES HAVE ONE OR MORE ANSWERS,   74 FILES SEARCHED IN STNINDEX

L1   QUE SOLUBLE (W) SILK (W) PROTEIN

=> d rank
F1            9   USPATFULL
F2            6   DGENE
F3            3   CAPLUS
F4            2   BIOTECHABS
F5            2   BIOTECHDS
F6            2   CEABA-VTB
F7            2   CIN
F8            2   GENBANK
F9            2   IFIPAT
F10           2   JICST-EPLUS
F11           2   WPIDS
F12           2   WPINDEX
F13           1   DISSABS

=> file hits
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               1.14       1.35

FILE 'USPATFULL' ENTERED AT 23:32:49 ON 03 SEP 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'CAPLUS' ENTERED AT 23:32:49 ON 03 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'CEABA-VTB' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (c) 2004 DECHEMA eV

FILE 'CIN' ENTERED AT 23:32:49 ON 03 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'GENBANK' ENTERED AT 23:32:49 ON 03 SEP 2004

FILE 'IFIPAT' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 IFI CLAIMS(R) Patent Services (IFI)

FILE 'JICST-EPLUS' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'WPIDS' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'DISSABS' ENTERED AT 23:32:49 ON 03 SEP 2004
COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights
Reserved.

=> s l1
L2           33 L1

=> dup rem l2
DUPLICATE IS NOT AVAILABLE IN 'DGENE, GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3            28 DUP REM L2 (5 DUPLICATES REMOVED)

=> file hits -dgene
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
```

```
                                                    ENTRY    SESSION
FULL ESTIMATED COST                                 28.34      29.69

FILE 'USPATFULL' ENTERED AT 23:33:19 ON 03 SEP 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 23:33:19 ON 03 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOTECHDS' ENTERED AT 23:33:19 ON 03 SEP 2004
COPYRIGHT (C) 2004 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'CEABA-VTB' ENTERED AT 23:33:19 ON 03 SEP 2004
COPYRIGHT (c) 2004 DECHEMA eV

FILE 'CIN' ENTERED AT 23:33:19 ON 03 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'GENBANK' ENTERED AT 23:33:19 ON 03 SEP 2004

FILE 'JICST-EPLUS' ENTERED AT 23:33:19 ON 03 SEP 2004
COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'DISSABS' ENTERED AT 23:33:19 ON 03 SEP 2004
COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights
Reserved.

=> s l1
L4           23 L1

=> dup rem l4
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L4
L5            22 DUP REM L4 (1 DUPLICATE REMOVED)

=> s l5 and (skin or hair)
L6           11 L5 AND (SKIN OR HAIR)

=> s l5 and cosmetic
L7           10 L5 AND COSMETIC

=> s l6 or l7
L8           11 L6 OR L7

=> dup rem l8
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L8
L9            11 DUP REM L8 (0 DUPLICATES REMOVED)

=> d l9 bib ab 1-11
```

L9 ANSWER 1 OF 11 USPATFULL on STN
AN 2004:220823 USPATFULL
TI Water-soluble silk proteins in compositions for ***skin*** care, ***hair*** care or ***hair*** coloring
IN Fahnestock, Stephen R., Wilmington, DE, UNITED STATES
Schultz, Thomas M., Randolph, NJ, UNITED STATES
PI US 2004170590 A1 20040902
AI US 2004-772124 A1 20040204 (10)
PRAI US 2003-448952P 20030220 (60)
DT Utility
FS APPLICATION
LREP E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER, BARLEY MILL PLAZA 25/1128, 4417 LANCASTER PIKE, WILMINGTON, DE, 19805
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1657
AB ***Skin*** care, ***hair*** care and ***hair*** coloring compositions comprising a water- ***soluble*** ***silk*** ***protein*** as an active ingredient are described. The water- ***soluble*** ***silk*** ***protein*** deposits onto the ***skin*** or the natural ***hair*** keratin to provide a smooth and durable film to provide added strength for protection against environmental, chemical, and grooming associated damage. The compositions may be in the form of ***skin*** care, ***skin*** cleansing, or anti-wrinkle products, shampoos, conditioners, lotions, aerosols, gels, mousses, dyes, or bleaches.

L9 ANSWER 2 OF 11 USPATFULL on STN
AN 2004:172814 USPATFULL
TI Method for purifying and recovering silk proteins in soluble form and uses thereof
IN Fahnestock, Stephen R., Wilmington, DE, UNITED STATES
Schultz, Thomas M., Randolph, NJ, UNITED STATES
PI US 2004132978 A1 20040708
AI US 2003-704337 A1 20031107 (10)
PRAI US 2002-425617P 20021112 (60)
DT Utility
FS APPLICATION
LREP POTTER ANDERSON & CORROON LLP, ATTN: KATHLEEN W. GEIGER, ESQ., P.O. BOX 951, WILMINGTON, DE, 19899-0951
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1383
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for purifying and recovering silk proteins in water-soluble form is described. The method is based upon precipitation of the silk protein at a temperature below room temperature, which results in a protein pellet that redissolves in water without the addition of harsh chemicals. When the precipitation is done at room temperature, the resulting protein pellet cannot be redissolved in water. Applications for the water-soluble silk proteins in cosmetics, ***skin*** care, ***hair*** care, ***hair*** coloring products, and for pigment coating and wound healing bandages are described.

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:718313 CAPLUS
TI Water-soluble silk proteins in compositions for ***skin*** care, ***hair*** care or ***hair*** coloring
IN Fahnestock, Stephen R.; Schultz, Thomas M.
PA E.I. Dupont de Nemours and Company, USA
SO PCT Int. Appl.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004073644	A2	20040902	WO 2004-US4858	20040218
	W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-448952P	P	20030220		

AB ***Skin*** care, ***hair*** care and ***hair*** coloring compositions comprising a water- ***soluble*** ***silk*** ***protein*** as an active ingredient are described. The water- ***soluble*** ***silk*** ***protein*** deposits onto the ***skin*** or the natural ***hair*** keratin to provide a smooth and durable film to provide added strength for protection against environmental, chemical, and grooming associated damage. The compositions may be in the form of ***skin*** care, ***skin*** cleansing, or anti-wrinkle products, shampoos, conditioners, lotions, aerosols, gels, mousses, dyes, or bleaches.

L9 ANSWER 4 OF 11 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2004-15645 BIOTECHDS
TI Purifying and recovering recombinant silk proteins in water-soluble form, useful in the production of cosmetics, ***skin*** care and ***hair*** care compositions, and/or pigment coating and wound healing bandages;
for use in ***cosmetic*** industry and in pigment, vulnerary, dermatological disorders
AU FAHNESTOCK S R; SCHULTZ T M
PA DU PONT DE NEMOURS and CO E I
PI WO 2004044172 27 May 2004
AI WO 2003-US36161 12 Nov 2003
PRAI US 2002-425617 12 Nov 2002; US 2002-425617 12 Nov 2002
DT Patent
LA English
OS WPI: 2004-420314 [39]
AB DERWENT ABSTRACT:
NOVELTY - Purification of water- ***soluble*** ***silk*** ***protein*** from a sample containing water- ***soluble*** ***silk*** ***protein*** , is new.
DETAILED DESCRIPTION - Purification of water- ***soluble*** ***silk*** ***protein*** from a sample containing water- ***soluble*** ***silk*** ***protein*** comprises providing a sample having silk protein in the presence of contaminating proteins, adjusting its pH to an acidic pH, heating the adjusted sample to at least 55 degreesC, removing debris from the sample, lowering the temperature of the heated sample to below 20 degreesC, adding a precipitating agent to the cooled sample to allow silk protein to precipitate, where the precipitated silk protein may be redissolved in an aqueous solution. The at least a portion of the silk protein in the method cited above is water-soluble. INDEPENDENT CLAIMS are also included for: (1) purification of water- ***soluble*** ***silk*** ***protein*** from a host cell containing water- ***soluble*** ***silk*** ***protein*** , comprising providing a sample having silk protein, a portion of which is water soluble, disrupting the host cell to release the silk protein and produce a crude silk extract, adjusting the pH of the crude silk extract to an acidic pH, heating the adjusted sample to at least 55degreesC, removing cell debris from the extract, lowering the temperature of the heated extract to below 20degreesC, adding a precipitating agent to the cooled extract to allow silk protein to precipitate, where the precipitated silk protein may be redissolved in an aqueous solution; and (2) a ***cosmetic*** composition, ***skin*** care composition, or ***hair*** care composition comprising a water ***soluble*** ***silk*** ***protein*** purified by any of the methods cited above.

BIOTECHNOLOGY - Preferred Method: The pH in any of the purification methods is adjusted to pH of 3.0-6.0. The heating of the adjusted extract is to a temperature of about 55-100 degreesC. The temperature is lowered to 0-10 degreesC. The precipitating agent is inorganic salts, water-miscible organic solvents, and water-soluble organic polymers. The cell debris is optionally removed after the second and third steps. The removal of cell debris is accomplished by centrifugation, filtration, flocculation or settling over time. The host cell is prokaryotic cells, yeasts, fungi, algae, green plants, and mammalian cells. The host cell is disrupted mechanically by a means selected from the group consisting of sonication, irradiation, homogenation, pressing or freeze thawing. The silk protein is dragline spider silk proteins Spidroin 1 and Spidroin 2, spider silk proteins originating from the minor ampullate gland of Nephila clavipes, and spider silk proteins originating from the flagelliform gland of Nephila clavipes, and their variants. The spider silk dragline protein is defined by formula I; where, Formula I (Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly X Gln Gly Ala Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly Ala n Gly Gly)z, X = S, G or N; n= 0-7 and z = 1-75, and where the value of z determines the number of repeats in the variant protein, and where the formula encompasses variations selected from the group consisting of: (a) when n = 0, the sequence encompassing Ala Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly Ala n Gly Gly is deleted; (b) deletions other than the poly-alanine sequence, limited by the value of n will encompass integral multiples of three consecutive residues; (c) the deletion of Gly Tyr Gly in any repeat is accompanied by deletion of Gly Arg Gly in the same repeat; and (d) where a first repeat where n = 0 is deleted, the first repeat is preceded by a second repeat where n = 6; and wherein the full-length protein is encoded by a gene or genes and wherein said gene or genes are not endogenous to the Nephila clavipes genome. The spider dragline protein has a repeating unit having a fully defined amino acid sequence of 101 or 109 amino acids (SEQ ID NO: 1-4) as given in the

specification.

ACTIVITY - Dermatological; Vulnerary. No biological data given.

USE - The methods and compositions of the present invention of purifying and recovering recombinant silk proteins in water-soluble form, useful in the production of cosmetics, ***skin*** care and ***hair*** care compositions, and/or pigment coating and wound healing bandages.

EXAMPLE - The recovery of spider silk analog protein DP-2A in soluble form using a purification method that uses ammonium sulfate fractionation at low temperature. E. coli strain FP3276 was cultured with minor modifications, where strain FP3276 was grown at 36degreesC in a BioLafitte fermenter in 10 L of a medium as given in the specification. The fermenter was inoculated with 500 mL of overnight culture of FP3276 in 2xYT, 2% glucose and 50 mg/Leu kanamycin. The pH was maintained at 6.8 by addition of 40% NH4OH or 20% His3PO4. Dissolved O2 was maintained at 25%. After 3 hours, the cells were harvested by centrifugation in a GS-3 type rotor in a Sorval Model RC5C refrigerated centrifuge and the cell paste was stored frozen at -20degreesC for at least 24 hours before proceeding with purification process. The cell paste was thawed and resuspended in 420 mL of lysis buffer. Lysozyme was added to the cell suspension to a concentration of 300 microg/ml and the solution was incubated at 4 degreesC for 1 hour. Then, the suspension was quick-frozen in a dry ice-ethanol bath and thawed in a 37 degreesC bath. The resulting supernatant was combined with the supernatant from the initial centrifugation. The pH of the cleared lysate was adjusted to pH 4.9 with acetic acid, and centrifuged at 14000 x g for 1 hour at 4 degreesC. A saturated ammonium sulfate solution was added to the supernatants in a volume ratio of 1-9. The resulting solutions were incubated on ice for 15 minutes, and then centrifuged at 14000 x g for 15 minutes at 4degreesC to collect the precipitated DP-2A spider silk analog protein. The resulting pellets were redissolved in water at 4degreesC using one-tenth the volume of the supernatant. The products were at least 95% pure DP-2A as demonstrated by analysis using the Protein Plus 200 LabChip protocol. (38 pages)

L9 ANSWER 5 OF 11 USPATFULL on STN
AN 2003:6663 USPATFULL
TI Absorbent article which maintains or improves ***skin*** health
IN Paul, Susan Carol, Alpharetta, GA, United States
Akin, Frank Jerrel, Marietta, GA, United States
Di Luccio, Robert Cosmo, Alpharetta, GA, United States
Everhart, Dennis Stein, Alpharetta, GA, United States
Gadsby, Elizabeth Deibler, Marietta, GA, United States
Mayberry, Pamela Jean, Roswell, GA, United States
Wright, Audra Stefanik, Woodstock, GA, United States
Yahiaoui, Ali, Roswell, GA, United States
Faulks, Michael John, Neenah, WI, United States
Krzysik, Duane Gerard, Appleton, WI, United States
Menard, Karen Marie, Neenah, WI, United States
Musil, David Charles, Appleton, WI, United States
Rosch, III, Frank Andrew, Sherwood, WI, United States
Shaw, Gordon Allen, Greenville, WI, United States
Tyrrell, David John, Appleton, WI, United States
Underhill, Diane Michele, Neenah, WI, United States
Hockersmith, Jeffrey Michael, Mill Creek, WA, United States
Gillberg-LaForce, Gunilla Elsa, Painted Post, NY, United States
May, Wade Bolton, New Orleans, LA, United States
PA Kimberly-Clark Worldwide, Inc., Neenah, WI, United States (U.S. corporation)
PI US 6503525 B1 20030107
AI US 2000-671357 20000927 (9)
RLI Division of Ser. No. US 1999-379431, filed on 23 Aug 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis
LREP Dudkowski, Alyssa A., Curtin, Jeffrey B.
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 3217
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An absorbent article includes a vapor permeable backsheet, a liquid permeable topsheet positioned in facing relation with the backsheet; and an absorbent body located between the backsheet and the topsheet. The absorbent body may include multiple zones of high air permeability. The absorbent article may also include a ventilation layer between the absorbent body and the backsheet and a surge management layer between the absorbent body and the topsheet. The article exhibits improved air exchange within the article during use. As a result, the article maintains the temperature and exhibits substantially reduced levels of hydration of the wearer's ***skin*** when in use which renders the ***skin*** less susceptible to the viability of microorganisms. The absorbent article may further include lotion formulations and/or treatment compositions thereon for maintaining or improving ***skin*** health.

L9 ANSWER 6 OF 11 USPATFULL on STN
AN 2002:340156 USPATFULL
TI Silk protein treatment composition and treated substrate for transfer to ***skin***
IN Everhart, Dennis Stein, Alpharetta, GA, United States
Di Luccio, Robert Cosmo, Alpharetta, GA, United States
Yahiaoui, Ali, Roswell, GA, United States
May, Wade Bolton, Alexandria, LA, United States
Tyrrell, David John, Appleton, WI, United States
Gadsby, Elizabeth Deibler, Marietta, GA, United States
Gillberg-LaForce, Gunilla Elsa, Painted Post, NY, United States
PA Kimberly-Clark Worldwide, Inc., Neenah, WI, United States (U.S. corporation)
PI US 6497893 B1 20021224
AI US 1999-343861 19990630 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis
LREP Letson, William W., Moyles, Lisa J.
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1021
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to a topical delivery system effective in depositing a thin, tenacious and substantially continuous coating of a silk protein on ***skin*** by an aqueous emulsion mediated dissolution of protein from a substrate with subsequent transfer and

deposition onto the ***skin*** . Coatings of silk protein on ***skin*** resist removal, thereby providing a protective barrier against chemically- and biochemically-induced ***skin*** damage. The treatment composition also provides a vehicle for administering an effective dose of an active agent to the ***skin*** surface.

L9 ANSWER 7 OF 11 USPATFULL on STN
AN 2002:303725 USPATFULL
TI Absorbent article which maintains or improves ***skin*** health
IN Paul, Susan Carol, Alpharetta, GA, United States
Akin, Frank Jerrel, Marietta, GA, United States
Di Luccio, Robert Cosmo, Alpharetta, GA, United States
Everhart, Dennis Stein, Alpharetta, GA, United States
Gadsby, Elizabeth Deibler, Marietta, GA, United States
Mayberry, Pamela Jean, Roswell, GA, United States
Wright, Audra Stefanik, Woodstock, GA, United States
Yahiaoui, Ali, Roswell, GA, United States
Faulks, Michael John, Neenah, WI, United States
Krzysik, Duane Gerard, Appleton, WI, United States
Menard, Karen Marie, Neenah, WI, United States
Musil, David Charles, Appleton, WI, United States
Rosch, III, Frank Andrew, Sherwood, WI, United States
Shaw, Gordon Allen, Greenville, WI, United States
Tyrrell, David John, Appleton, WI, United States
Underhill, Diane Michele, Neenah, WI, United States
Hockersmith, Jeffrey Michael, Mill Creek, WA, United States
Gillberg-LaForce, Gunilla Elsa, Painted Post, NY, United States
May, Wade Bolton, New Orleans, LA, United States
PA Kimberly-Clark Worldwide, Inc., Neenah, WI, United States (U.S. corporation)
PI US 6482422 B1 20021119
AI US 2000-671356 20000927 (9)
RLI Division of Ser. No. US 1999-379431, filed on 23 Aug 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis
LREP Dudkowski, Alyssa A., Curtin, Jeffrey B.
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 3224
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An absorbent article includes a vapor permeable backsheet, a liquid permeable topsheet positioned in facing relation with the backsheet; and an absorbent body located between the backsheet and the topsheet. The absorbent body may include multiple zones of high air permeability. The absorbent article may also include a ventilation layer between the absorbent body and the backsheet and a surge management layer between the absorbent body and the topsheet. The article exhibits improved air exchange within the article during use. As a result, the article maintains the temperature and exhibits substantially reduced levels of hydration of the wearer's ***skin*** when in use which renders the ***skin*** less susceptible to the viability of microorganisms. The absorbent article may further include lotion formulations and/or treatment compositions thereon for maintaining or improving ***skin*** health.

L9 ANSWER 8 OF 11 USPATFULL on STN
AN 2001:202209 USPATFULL
TI Absorbent article which maintains or improves ***skin*** health
IN Paul, Susan Carol, Alpharetta, GA, United States
Akin, Frank Jerrel, Marietta, GA, United States
Di Luccio, Robert Cosmo, Alpharetta, GA, United States
Everhart, Dennis Stein, Alpharetta, GA, United States
Gadsby, Elizabeth Deibler, Marietta, GA, United States
Mayberry, Pamela Jean, Roswell, GA, United States
Wright, Audra Stefanik, Woodstock, GA, United States
Yahiaoui, Ali, Roswell, GA, United States
Faulks, Michael John, Neenah, WI, United States
Krzysik, Duane Gerard, Appleton, WI, United States
Menard, Karen Marie, Neenah, WI, United States
Musil, David Charles, Appleton, WI, United States
Rosch, III, Frank Andrew, Sherwood, WI, United States
Shaw, Gordon Allen, Greenville, WI, United States
Tyrrell, David John, Appleton, WI, United States
Underhill, Diane Michele, Neenah, WI, United States
Hockersmith, Jeffrey Michael, Mill Creek, WA, United States
Gillberg-LaForce, Gunilla Elsa, Painted Post, NY, United States
May, Wade Bolton, New Orleans, LA, United States
PA Kimberly-Clark Worldwide, Inc., Neenah, WI, United States (U.S. corporation)
PI US 6316013 B1 20011113
AI US 2000-671446 20000927 (9)
RLI Division of Ser. No. US 1999-379431, filed on 23 Aug 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis
LREP Dudkowski, Alyssa
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 3240
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An absorbent article includes a vapor permeable backsheet, a liquid permeable topsheet positioned in facing relation with the backsheet; and an absorbent body located between the backsheet and the topsheet. The absorbent body may include multiple zones of high air permeability. The absorbent article may also include a ventilation layer between the absorbent body and the backsheet and a surge management layer between the absorbent body and the topsheet. The article exhibits improved air exchange within the article during use. As a result, the article maintains the temperature and exhibits substantially reduced levels of hydration of the wearer's ***skin*** when in use which renders the ***skin*** less susceptible to the viability of microorganisms. The absorbent article may further include lotion formulations and/or treatment compositions thereon for maintaining or improving ***skin*** health.

L9 ANSWER 9 OF 11 USPATFULL on STN
AN 2001:167755 USPATFULL
TI Absorbent article which maintains or improves ***skin*** health
IN Paul, Susan Carol, Alpharetta, GA, United States
Akin, Frank Jerrel, Marietta, GA, United States
Di Luccio, Robert Cosmo, Alpharetta, GA, United States

Everhart, Dennis Stein, Alpharetta, GA, United States
Gadsby, Elizabeth Deibler, Marietta, GA, United States
Mayberry, Pamela Jean, Roswell, GA, United States
Wright, Audra Stefanik, Woodstock, GA, United States
Yahiaoui, Ali, Roswell, GA, United States
Faulks, Michael John, Neenah, WI, United States
Krzysik, Duane Gerard, Appleton, WI, United States
Menard, Karen Marie, Neenah, WI, United States
Musil, David Charles, Appleton, WI, United States
Rosch, III, Frank Andrew, Sherwood, WI, United States
Shaw, Gordon Allen, Greenville, WI, United States
Tyrrell, David John, Appleton, WI, United States
Underhill, Diane Michele, Neenah, WI, United States
Hockersmith, Jeffrey Michael, Mill Creek, WA, United States
Gillberg-LaForce, Gunilla Elsa, Painted Post, NY, United States
May, Wade Bolton, New Orleans, LA, United States

PA Kimberly-Clark Worldwide, Neenah, WI, United States (U.S. corporation)
PI US 6296862 B1 20011002
AI US 2000-671447 20000927 (9)
RLI Division of Ser. No. US 1999-379431, filed on 23 Aug 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis
LREP Dudkowski, Alyssa
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 3321
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An absorbent article includes a vapor permeable backsheet, a liquid permeable topsheet positioned in facing relation with the backsheet; and an absorbent body located between the backsheet and the topsheet. The absorbent body may include multiple zones of high air permeability. The absorbent article may also include a ventilation layer between the absorbent body and the backsheet and a surge management layer between the absorbent body and the topsheet. The article exhibits improved air exchange within the article during use. As a result, the article maintains the temperature and exhibits substantially reduced levels of hydration of the wearer's ***skin*** when in use which renders the ***skin*** less susceptible to the viability of microorganisms. The absorbent article may further include lotion formulations and/or treatment compositions thereon for maintaining or improving ***skin*** health.

L9 ANSWER 10 OF 11 USPATFULL on STN
AN 2001:55468 USPATFULL
TI Absorbent article which maintains or improves ***skin*** health
IN Paul, Susan Carol, 310 Tanners Crossing, Alpharetta, GA, United States 30022
Akin, Frank Jerrel, 560 Trailwood La., Marietta, GA, United States 30064
Di Luccio, Robert Cosmo, 2350 Cogburn Ridge Rd., Alpharetta, GA, United States 30004
Everhart, Dennis Stein, 230 Hereford Rd., Alpharetta, GA, United States 30004
Gadsby, Elizabeth Deibler, 5338 Timber Ridge Rd., Marietta, GA, United States 30068
Mayberry, Pamela Jean, 1035 Lyndhurst Way, Roswell, GA, United States 30075
Wright, Audra Stefanik, 4142 Country Manor Ct., Woodstock, GA, United States 30188
Yahiaoui, Ali, 5040 Foxberry La., Roswell, GA, United States 30075
Faulks, Michael John, 2320 Fiesta Ct., Neenah, WI, United States 54956
Krzysik, Duane Gerard, 1112 E. Melrose Ave., Appleton, WI, United States 54911
Menard, Karen Marie, 528 E. Peckham St., Neenah, WI, United States 54956
Musil, David Charles, 3725 S. School Ave., Appleton, WI, United States 54915
Rosch, III, Frank Andrew, W4823 Spring Hill Dr., Sherwood, WI, United States 54169
Shaw, Gordon Allen, W6253 Everglade Rd., Greenville, WI, United States 54942
Tyrrell, David John, 415 S. Olde Oneida St., Apt. 318, Appleton, WI, United States 54911
Underhill, Diane Michele, 726 Congress Pl., Neenah, WI, United States 54956
Hockersmith, Jeffrey Michael, 14705 24th Ave. SE., Mill Creek, WA, United States 98012
Gillberg-LaForce, Gunilla Elsa, 7 Pond View, Painted Post, NY, United States 14870
May, Wade Bolton, 5317 St. Charles, Apt. K, New Orleans, LA, United States 70115

PI US 6217890 B1 20010417
AI US 1999-379431 19990823 (9)
RLI Continuation-in-part of Ser. No. US 1999-298314, filed on 23 Apr 1999 Continuation-in-part of Ser. No. US 1998-139820, filed on 25 Aug 1998 Continuation-in-part of Ser. No. US 1998-139824, filed on 25 Aug 1998, now abandoned Continuation-in-part of Ser. No. US 1999-328681, filed on 9 Jun 1999 Continuation-in-part of Ser. No. US 1999-343861, filed on 30 Jun 1999 Continuation-in-part of Ser. No. US 1999-377294, filed on 19 Aug 1999
PRAI US 1999-141788P 19990630 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Tran, S.
LREP Curtin, Jeffrey B.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 3247
AB An absorbent article includes a vapor permeable backsheet, a liquid permeable topsheet positioned in facing relation with the backsheet; and an absorbent body located between the backsheet and the topsheet. The absorbent body may include multiple zones of high air permeability. The absorbent article may also include a ventilation layer between the absorbent body and the backsheet and a surge management layer between the absorbent body and the topsheet. The article exhibits improved air exchange within the article during use. As a result, the article maintains the temperature and exhibits substantially reduced levels of hydration of the wearer's ***skin*** when in use which renders the ***skin*** less susceptible to the viability of microorganisms. The absorbent article may further include lotion formulations and/or treatment compositions thereon for maintaining or improving ***skin***